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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/604,747	08/14/2003	Daniel Joseph Christian Herr	361007-000025	1746
24239 73	590 06/30/2004		EXAM	INER
MOORE & VAN ALLEN, PLLC			WILCZEWSKI, MARY A	
2200 W MAIN	STREET			
SUITE 800			ART UNIT	PAPER NUMBER
DURHAM, NO	C 27705		2822	
			DATE MAILED: 06/30/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
Office Action Commence	10/604,747	HERR ET AL.
Office Action Summary	Examiner	Art Unit
The MAN INCO DATE of the commence of the	Mary Wilczewski	2822
The MAILING DATE of this communication a Period for Reply	appears on the cov r sh et wit	n the correspondence address
A SHORTENED STATUTORY PERIOD FOR REATHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a less than thirty (3	N. 1.136(a). In no event, however, may a re- reply within the statutory minimum of thirty od will apply and will expire SIX (6) MONT tute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).
Status		
1) ■ Responsive to communication(s) filed on 14 2a) □ This action is FINAL. 2b) ■ T 3) □ Since this application is in condition for allow closed in accordance with the practice under	his action is non-final. wance except for formal matte	·
Disposition of Claims		
4a) Of the above claim(s) is/are withden specification 4a) Of the above claim(s) is/are withden specification claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-38 are subject to restriction and/or compared to the specification claim(s).	Irawn from consideration. or election requirement.	
9) The specification is objected to by the Exam	<u></u>	
10) ☐ The drawing(s) filed on <u>14 August 2003</u> is/ar Applicant may not request that any objection to t Replacement drawing sheet(s) including the corr 11) ☐ The oath or declaration is objected to by the	he drawing(s) be held in abeyand ection is required if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the papplication from the International Burnt * See the attached detailed Office action for a line.	ents have been received. ents have been received in Apriority documents have been reau (PCT Rule 17.2(a)).	plication No received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview St	ımmary (PTO-413)
2) Notice of References Cited (PTO-692) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/ Paper No(s)/Mail Date	Paper No(s)	/Mail Date ormal Patent Application (PTO-152)

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-31, drawn to a field effect transistor, classified in class
 257, subclass 213+.
- II. Claims 32-38, drawn to a method of fabricating a field effect transistor, classified in class 438, subclass 149+.

The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as process of making and product made.

The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case unpatentability of the group I invention would not necessarily imply unpatentability of the group II invention, since the transistor of the group I invention could be made by processes materially different than those of the group II invention, for example, rather than applying a pattern to the host structure including the engineered array of dopant atoms, the epitaxial film and the dielectric layer to define the final shape of the transistor, the epitaxial film and the dielectric layer could be selectively formed and/or the selectively formed dielectric layer and epitaxial film

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could be used as a mask to pattern the host structure including the engineered array of dopant atoms.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Drawings

The drawings filed on August 14, 2003, are acceptable.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Wilczewski whose telephone number is (571) 272-1849. The examiner can normally be reached on Monday and Thursday.

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The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

M. Wilczewski Primary Examiner Tech Center 2800